* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	SEP 09	CA/CAplus records now contain indexing from 1907 to the present
NEWS 4	Jul 15	Data from 1960-1976 added to RDISCLOSURE
NEWS 5	Jul 21	Identification of STN records implemented
NEWS 6	Jul 21	Polymer class term count added to REGISTRY
NEWS 7	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS 8	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS 9	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 10	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS 11	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS 12	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS 13	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS 14	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS 15	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS 16	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Righ Truncation
NEWS 17	AUG 18	Simultaneous left and right truncation added to ANABSTR
NEWS 18	SEP 22	DIPPR file reloaded
NEWS 19	SEP 25	INPADOC: Legal Status data to be reloaded
NEWS 20	SEP 29	DISSABS now available on STN

NEWS EXPRESS	April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 06:47:41 ON 01 OCT 2003

=> **file reg**

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 06:47:47 ON 01 OCT 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 SEP 2003 HIGHEST RN 595542-94-2
DICTIONARY FILE UPDATES: 29 SEP 2003 HIGHEST RN 595542-94-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

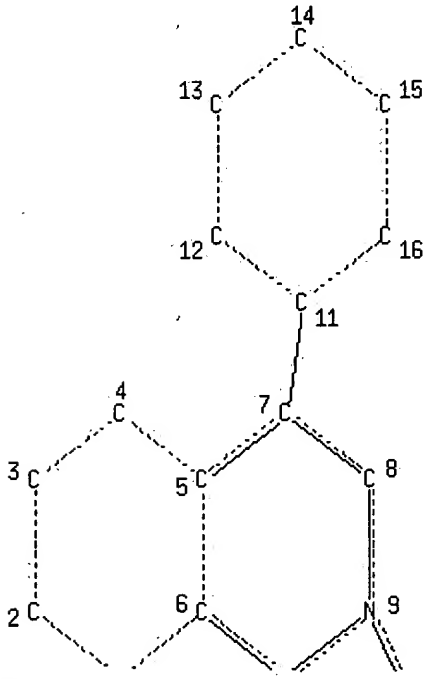
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

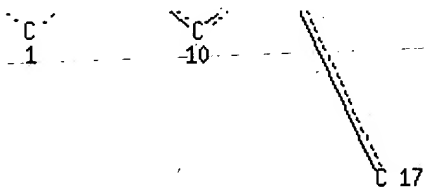
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Page 1-A



Page 2-A
NODE ATTRIBUTES:

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NSPEC   IS R      AT   1
NSPEC   IS R      AT   2
NSPEC   IS R      AT   3
NSPEC   IS R      AT   4
NSPEC   IS R      AT   5
NSPEC   IS R      AT   6
NSPEC   IS R      AT   7
NSPEC   IS R      AT   8
NSPEC   IS R      AT   9
NSPEC   IS R      AT  10
NSPEC   IS R      AT  11
NSPEC   IS R      AT  12
NSPEC   IS R      AT  13
NSPEC   IS R      AT  14
NSPEC   IS R      AT  15
NSPEC   IS R      AT  16
NSPEC   IS C      AT  17
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT  17
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC  11
NUMBER OF NODES IS  17

STEREO ATTRIBUTES: NONE


=> s l1
SAMPLE SEARCH INITIATED 06:49:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   2851 TO ITERATE

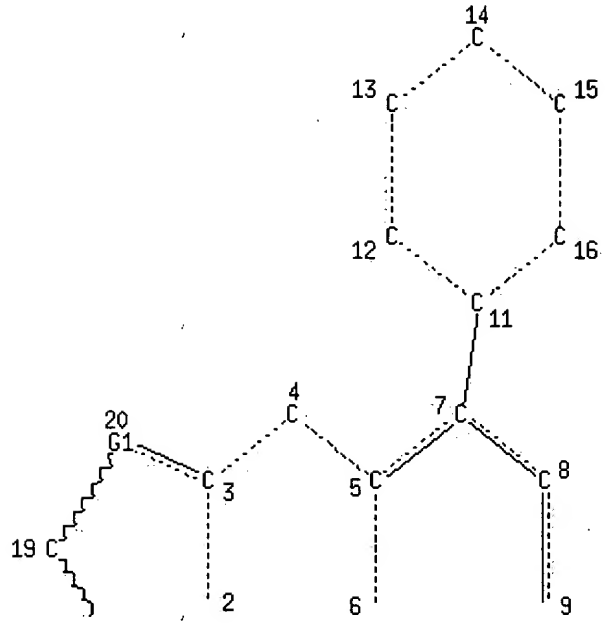
 35.1% PROCESSED    1000 ITERATIONS                          42 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        53818 TO    60222
PROJECTED ANSWERS:            1738 TO     3050

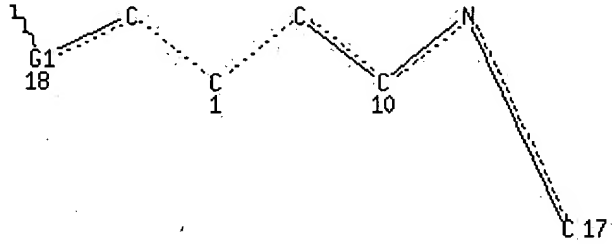
L2            42 SEA SSS SAM L1

=>
L3       STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3               STR
 0 21 S 22 N 23
Page 1-A
```



Page 1-B



Page 2-B
VAR G1=21/22/23
NODE ATTRIBUTES:
NSPEC IS R AT 1
NSPEC IS R AT 2
NSPEC IS R AT 3
NSPEC IS R AT 4
NSPEC IS R AT 5
NSPEC IS R AT 6
NSPEC IS R AT 7
NSPEC IS R AT 8
NSPEC IS R AT 9
NSPEC IS R AT 10
NSPEC IS R AT 11
NSPEC IS R AT 12
NSPEC IS R AT 13
NSPEC IS R AT 14
NSPEC IS R AT 15
NSPEC IS R AT 16
NSPEC IS C AT 17
NSPEC IS R AT 18
NSPEC IS R AT 19
NSPEC IS R AT 20
DEFAULT MLEVEL IS ATOM
MLEVEL IS CLASS AT 17
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 11

```
NUMBER OF NODES IS  23

STEREO ATTRIBUTES: NONE


=> s l3
SAMPLE SEARCH INITIATED 06:51:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    660 TO ITERATE

100.0% PROCESSED     660 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        11659 TO    14741
PROJECTED ANSWERS:               0 TO        0

L4            0 SEA SSS SAM L3

=> s l3 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 147.75 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 06:51:44 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  13126 TO ITERATE

100.0% PROCESSED   13126 ITERATIONS                               5 ANSWERS
SEARCH TIME: 00.00.01

L5            5 SEA SSS FUL L3

=> file hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             150.55     150.76

FILE 'HCAPLUS' ENTERED AT 06:51:49 ON 01 OCT 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 1 Oct 2003  VOL 139 ISS 14
FILE LAST UPDATED: 30 Sep 2003  (20030930/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

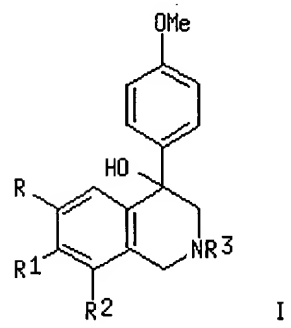

=> s l5
L6            5 L5
```

=> d l6, ibib abs fhitstr, 1-5

L6 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1996:613920 HCAPLUS
DOCUMENT NUMBER: 125:275613
TITLE: A convenient synthesis of 1,2,3,4-tetrahydro-4-arylisoquinolin-4-ol derivatives
AUTHOR(S): Coskun, Necdet; Sumengen, Dogan
CORPORATE SOURCE: Department Chemistry, Uludag University, Bursa, 16059, Turk.
SOURCE: Chimica Acta Turcica (1996), 24(2), 151-154
CODEN: CATUA9; ISSN: 0379-5896
PUBLISHER: Istanbul Universitesi, Muhendislik Fakultesi Dekanligi, Kimya Muhendisligi Bolumu
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

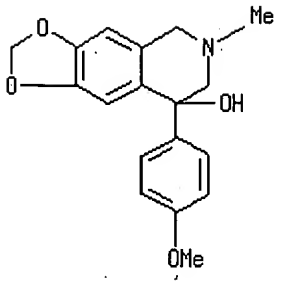
AB N-Benzylaminoacetophenones were obtained by reductive amination of arom. aldehydes with amines in the presence of KBH4 and alkylation with α-haloacetophenones using K2CO3 as a base. The title compds. I [R = R1 = OMe, R2 = H, R3 = Me, CH2Ph; RR1 = OCH2O, R2 = H, R3 = Me; R = H, R1 = R2 = OMe, R3 = Me] were obtained by cyclizing the benzylaminoacetophenones with 95% H2SO4 in methylene chloride.

IT **182575-15-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of arylisoquinolinols)

RN 182575-15-1 HCAPLUS
CN 1,3-Dioxolo[4,5-g]isoquinolin-8-ol, 5,6,7,8-tetrahydro-8-(4-methoxyphenyl)-6-methyl-, (2Z)-2-butenedioate (1:1) (salt) (9CI) (CA INDEX NAME)

CM 1

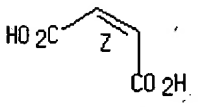
CRN 182575-14-0
CMF C18 H19 N O4



CM 2

CRN 110-16-7
CMF C4 H4 O4

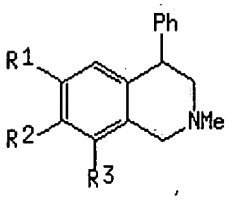
Double bond geometry as shown.



L6 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1990:497422 HCAPLUS
DOCUMENT NUMBER: 113:97422
TITLE: A new synthesis of 1,2,3,4-tetrahydro-2-methyl-4-phenylisoquinolines
AUTHOR(S): Venkov, A.; Vodenicharov, D.
CORPORATE SOURCE: Dep. Chem., Univ. Plovdiv, Plovdiv, 4000, Bulg.
SOURCE: Synthesis (1990), (3), 253-5
CODEN: SYNTBF; ISSN: 0039-7881
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:97422
GI

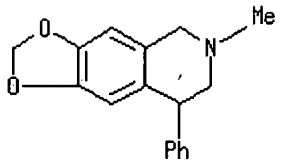


I

AB 1,2,3,4-Tetrahydro-2-methyl-4-phenylisoquinolines I (R1 = R2 = OMe, R3 = H; R1 = OH, R2 = OMe, R3 = H; R1 = H, R2 = R3 = OMe; R1 = R3 = H, R2 = OMe; R1 = OMe, R2 = R3 = H; R1 = R2 = H, R3 = H, NH2; R1R2 = OCH2O, R3 = H) are obtained from arom. aldehydes R1R2R3C6H2CHO, MeNH2, and α-haloacetophenones in the presence of NaBH4 followed by cyclization with H2SO4 and Zn in MeOH.

IT 128942-67-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 128942-67-6 HCAPLUS
CN 1,3-Dioxolo[4,5-g]isoquinoline, 5,6,7,8-tetrahydro-6-methyl-8-phenyl-

(9CI) (CA INDEX NAME)



L6 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1986:406658 HCAPLUS
DOCUMENT NUMBER: 105:6658
TITLE: Studies on tetrahydroisoquinolines. XXV. A synthesis of 4-aryl-1,2,3,4-tetrahydroisoquinolines; total synthesis of (±)-cherylline
AUTHOR(S): Hara, Hiroshi; Shirai, Ryuichi; Hoshino, Osamu; Umezawa, Bunsuke
CORPORATE SOURCE: Fac. Pharm. Sci., Sci. Univ. Tokyo, Tokyo, 162, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1985), 33(8), 3107-12
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 105:6658
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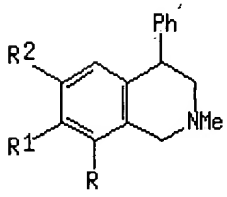

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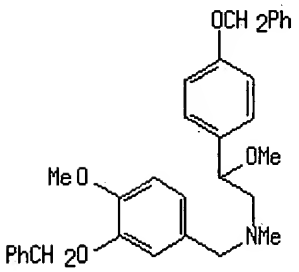
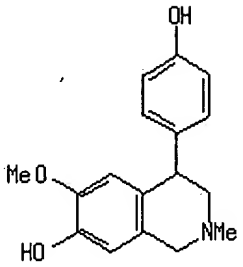


II

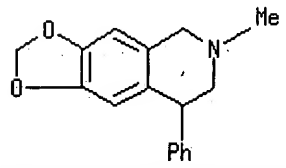


III

AB Four 4-phenyl-1,2,3,4-tetrahydroisoquinolines I (R = H, R1 = HO, R2 = MeO; R = H, R1 = MeO, R2 = HO; R = H, R1R2 = OCH2O; R = HO, R1 = MeO, R2 = H) were prepd. from two simple synthons, styrene oxide and the corresponding benzylamines, via the β-hydroxyphenethylamines in high yield. On the other hand, β-methoxyphenethyl methanesulfonate, obtained from 4-benzyloxystyrene oxide, was coupled with a benzylamine to give the N-benzyl-β-methoxyphenethylamine II. A facile total synthesis of (±)-cherylline (III) was accomplished by acid treatment of II.

4'-O-Methylcherylline was also synthesized through the same pathway.

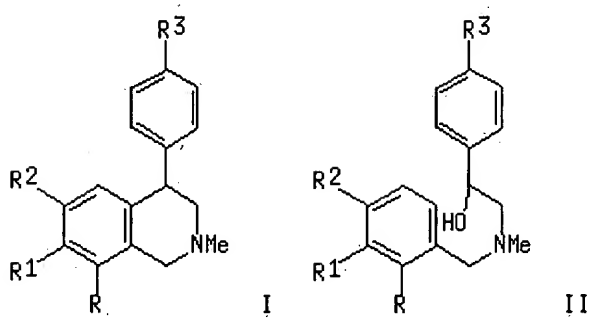
IT 128942-67-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 128942-67-6 HCAPLUS
CN 1,3-Dioxolo[4,5-g]isoquinoline, 5,6,7,8-tetrahydro-6-methyl-8-phenyl-(9CI) (CA INDEX NAME)



L6 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN

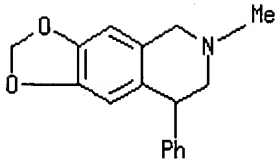
Full Text | Citing References

ACCESSION NUMBER: 1984:85962 HCAPLUS
DOCUMENT NUMBER: 100:85962
TITLE: A facile synthesis of 4-aryl-1,2,3,4-tetrahydroisoquinolines: a total synthesis of (±)-cherylline
AUTHOR(S): Hara, Hiroshi; Shirai, Ryuichi; Hoshino, Osamu; Umezawa, Bunsuke
CORPORATE SOURCE: Fac. Pharm. Sci., Univ. Tokyo, Tokyo, 162, Japan
SOURCE: Heterocycles (1983), 20(10), 1945-50
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Cherylline (I, R = H, R1 = R3 = HO, R2 = MeO) and the related isoquinolines I [R, R1, R2, R3 = H,HO,MeO,H; HO,MeO,H,H; H,MeO,HO,H; H,HO,MeO,MeO; H,OCH2O (R2R3),H] were prepd. by cyclization of (benzylamino)phenylethanols II by treatment with acid. II were prepd. by reaction of benzylamines and styrene oxides.

IT 128942-71-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 128942-71-2 HCAPLUS
CN 1,3-Dioxolo[4,5-g]isoquinoline, 5,6,7,8-tetrahydro-6-methyl-8-phenyl-, hydrochloride (9CI) (CA INDEX NAME)

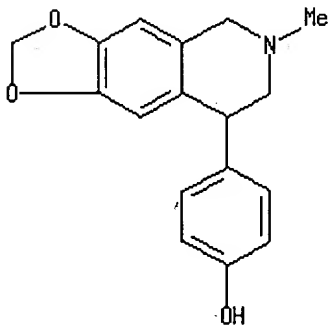


HCl

L6 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1975:410538 HCAPLUS
DOCUMENT NUMBER: 83:10538
TITLE: Syntheses of heterocyclic compounds. DXCI. Total synthesis of (+-)-cherylline and corgoine through quinonoid intermediates
AUTHOR(S): Kametani, Tetsuji; Takahashi, Keiichi; Chu Van Loc
CORPORATE SOURCE: Pharm. Inst., Tohoku Univ., Sendai, Japan
SOURCE: Tetrahedron (1975), 31(3), 235-8
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB 3,4-(PhCH2O)(MeO)C6H3CH2NHMe at 100° for 3.5 hr with 4-PhCH2OC6H4CH(OMe)CH2Br gave 3,4-(PhCH2O)(MeO)C6H3CH2NMeCH2CH(OMe)C6H4OCH2Ph-4 which on cyclization followed by debenzylation gave (±)-cherylline (I). Cherylline analogs II and III were prepd. similarly. Heating p-HOC6H4CH2OH with the isoquinoline IV in a current of N gave 44% corgoine (V).
IT **55708-71-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 55708-71-9 HCAPLUS
CN Phenol, 4-(5,6,7,8-tetrahydro-6-methyl-1,3-dioxolo[4,5-g]isoquinolin-8-yl)- (9CI) (CA INDEX NAME)



=>
L7 STRUCTURE UPLOADED

=> file reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	29.44	180.20

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.26	-3.26

FILE 'REGISTRY' ENTERED AT 06:53:19 ON 01 OCT 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 SEP 2003 HIGHEST RN 595542-94-2
DICTIONARY FILE UPDATES: 29 SEP 2003 HIGHEST RN 595542-94-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

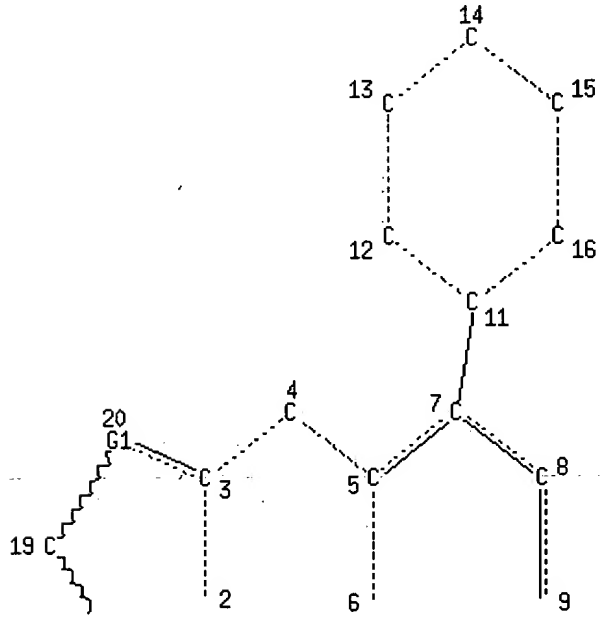
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

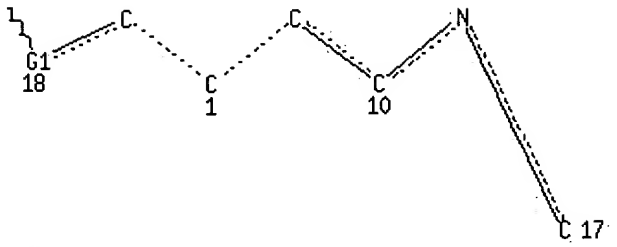
=>
L8 STRUCTURE UPLOADED

=> d l8
L8 HAS NO ANSWERS
L8 STR

0 21 S 22 N 23 C 24
Page 1-A



Page 1-B



Page 2-B
VAR G1=21/22/23/24
NODE ATTRIBUTES:
NSPEC IS R AT 1
NSPEC IS R AT 2
NSPEC IS R AT 3
NSPEC IS R AT 4
NSPEC IS R AT 5
NSPEC IS R AT 6
NSPEC IS R AT 7
NSPEC IS R AT 8
NSPEC IS R AT 9
NSPEC IS R AT 10
NSPEC IS R AT 11
NSPEC IS R AT 12
NSPEC IS R AT 13
NSPEC IS R AT 14
NSPEC IS R AT 15
NSPEC IS R AT 16
NSPEC IS C AT 17
NSPEC IS R AT 18
NSPEC IS R AT 19
NSPEC IS R AT 20
DEFAULT MLEVEL IS ATOM
MLEVEL IS CLASS AT 17
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 11
NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

=> **s 18**
SAMPLE SEARCH INITIATED 06:53:34 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 354 TO ITERATE

100.0% PROCESSED 354 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 5952 TO 8208
PROJECTED ANSWERS: 3 TO 163

L9 3 SEA SSS SAM L8

=> **s 18 full**
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 147.75 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:**y**

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FULL SEARCH INITIATED 06:53:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   7315 TO ITERATE

100.0% PROCESSED    7315 ITERATIONS                          31 ANSWERS
SEARCH TIME: 00.00.01

L10          31 SEA SSS FUL L8

=> file hcaplus
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                148.15     328.35

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                  0.00      -3.26

FILE 'HCAPLUS' ENTERED AT 06:53:43 ON 01 OCT 2003
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FILE COVERS 1907 - 1 Oct 2003  VOL 139 ISS 14
FILE LAST UPDATED: 30 Sep 2003  (20030930/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> s l10
L11           6 L10

=> d his

     (FILE 'HOME' ENTERED AT 06:47:41 ON 01 OCT 2003)

     FILE 'REGISTRY' ENTERED AT 06:47:47 ON 01 OCT 2003
L1               STRUCTURE UPLOADED
L2            42 S L1
L3               STRUCTURE UPLOADED
L4             0 S L3
L5             5 S L3 FULL

     FILE 'HCAPLUS' ENTERED AT 06:51:49 ON 01 OCT 2003
L6             5 S L5
L7               STRUCTURE UPLOADED

     FILE 'REGISTRY' ENTERED AT 06:53:19 ON 01 OCT 2003
L8               STRUCTURE UPLOADED
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L9              3 S L8
L10            31 S L8 FULL

     FILE 'HCAPLUS' ENTERED AT 06:53:43 ON 01 OCT 2003
L11             6 S L10

=> s l11 not l6
L12             1 L11 NOT L6

=> d 12, ibib abs fhitstr, 1
      1 ANSWERS ARE AVAILABLE.  SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):0
NUMBERS IN RANGE MUST BE GREATER THAN ZERO.
An answer number must be a positive number.
ENTER ANSWER NUMBER OR RANGE (1):end

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L12  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2003 ACS on STN
```

Full Text | Citing References

```
ACCESSION NUMBER:          2002:51467  HCAPLUS
DOCUMENT NUMBER:           136:118393
TITLE:                     Preparation and use of furan-fused-4-phenyl
                           substituted tetrahydroisoquinolines for treatment of
                           attention deficit hyperactivity disorder (ADHD)
INVENTOR(S):               Beck, James P.; Pechulis, Anthony D.; Harms, Arthur E.
PATENT ASSIGNEE(S):        Dupont Pharmaceuticals Company, USA
SOURCE:                    PCT Int. Appl., 116 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE:             Patent
LANGUAGE:                  English
FAMILY ACC. NUM. COUNT:    1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
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     WO 2002004455      A2   20020117       WO 2001-US21818  20010711
     WO 2002004455      A3   20020620
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
             RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
             VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     US 2002091134      A1   20020711       US 2001-902845   20010711
     EP 1299393         A2   20030409       EP 2001-952616   20010711
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     BR 2001012350      A    20030624       BR 2001-12350    20010711
PRIORITY APPLN. INFO.:                     US 2000-217412P  P  20000711
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OTHER SOURCE(S):           MARPAT 136:118393
GI
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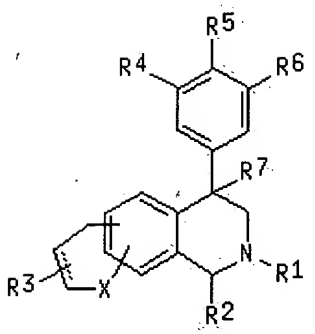

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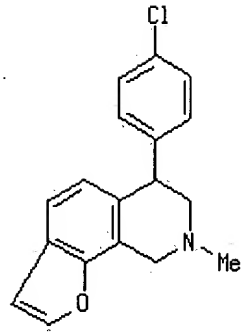


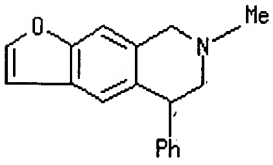
II

AB Title compds. I [R1 = alk(en/yn)yl, cycloalkyl, 5-cycloalkylalkyl and benzyl, each of which is optionally substituted with 1 to 3 substituents; R2 = H, alk(en/yn)yl, cycloalkyl, cycloalkylalkyl and haloalkyl; R3 = H, halo, alkyl, haloalkyl and cycloalkyl, wherein alkyl, haloalkyl and cycloalkyl are optionally substituted with 1 to 3 substituents selected from alkoxy and amino; R4-6 = H, halo, alkoxy, NO2, amino, amido, ureido, S(O)n, CN, acyl, carboxy, carboxamide, alk(en/yn)yl, cycloalkyl and cycloalkylalkyl; alternatively R5-6 = O-alkyl-O; R7 = H, halo and alkoxy; X = O, NH (and substituted derivs.) and S; n = 0 - 2] with some provisos, were prepd. E.g., 7-formylbenzofuran was converted to the corresponding methylamino-Me deriv. (MeOH, MeNH2, NaBH4), alkylated with p-chlorophenacyl bromide (CH2Cl2, Et3N) and reduced to the amino alc. (CH2Cl2, NaBH4, 5 h, 0° → room temp.). This intermediate was treated dropwise with MsOH (CH2Cl2, 0°C → reflux, overnight) to give II as a yellow oil (18% overall yield). Over 150 synthetic examples were provided. Compds. I are selective neurotransmitter receptor binding ligands (no data). I are useful in the treatment of attention-deficit hyperactivity disorder.

IT **389845-75-4P**
RL: BYP (Byproduct); PREP (Preparation)
(byproduct; prepn. and use of furan-fused-4-Ph substituted tetrahydroisoquinolines for treatment of attention deficit hyperactivity disorder (ADHD))

RN 389845-75-4 HCAPLUS

CN Furo[3,2-g]isoquinoline, 5,6,7,8-tetrahydro-7-methyl-5-phenyl- (9CI) (CA INDEX NAME)



=> **file reg**

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	9.05	337.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.65	-3.91

FILE 'REGISTRY' ENTERED AT 06:54:59 ON 01 OCT 2003
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 SEP 2003 HIGHEST RN 595542-94-2
DICTIONARY FILE UPDATES: 29 SEP 2003 HIGHEST RN 595542-94-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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L13 STRUCTURE UPLOADED

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L13 HAS NO ANSWERS
L13 STR

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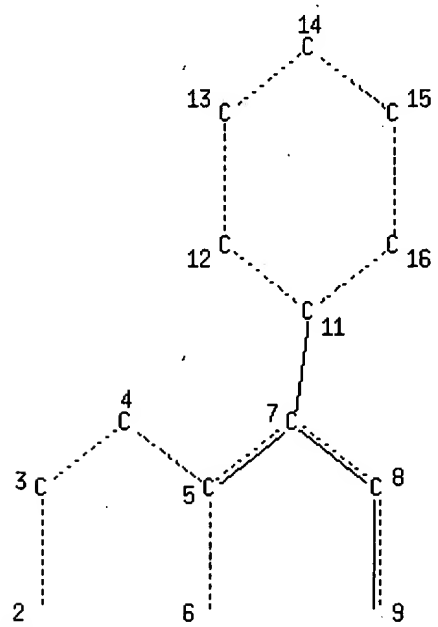
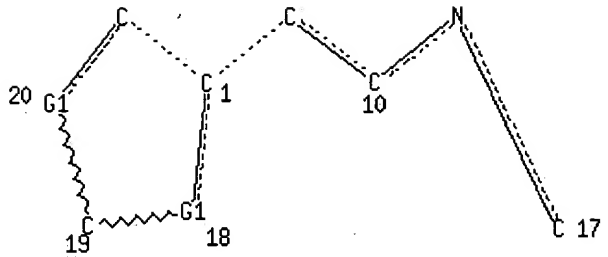
Page 1-A



Page 1-B



Page 2-B
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NSPEC IS R AT 20
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MLEVEL IS CLASS AT 17 21 22 23 24
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 11
NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

=> **s l13**
SAMPLE SEARCH INITIATED 06:56:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 263 TO ITERATE

100.0% PROCESSED 263 ITERATIONS 8 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4287 TO 6233
PROJECTED ANSWERS: 8 TO 329

L14 8 SEA SSS SAM L13

=> **s l13 full**
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 147.75 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 06:56:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5253 TO ITERATE

100.0% PROCESSED 5253 ITERATIONS 137 ANSWERS
SEARCH TIME: 00.00.01

L15 137 SEA SSS FUL L13

=> **file hcaplus**

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.95	486.35

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.91

FILE 'HCAPLUS' ENTERED AT 06:56:51 ON 01 OCT 2003
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FILE COVERS 1907 - 1 Oct 2003 VOL 139 ISS 14
FILE LAST UPDATED: 30 Sep 2003 (20030930/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> **s l15**
L16 2 L15

=> **d l16, ibib abs fhitstr, 1-2**

L16 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2002:51467 HCAPLUS
DOCUMENT NUMBER: 136:118393
TITLE: Preparation and use of furan-fused-4-phenyl substituted tetrahydroisoquinolines for treatment of attention deficit hyperactivity disorder (ADHD)
INVENTOR(S): Beck, James P.; Pechulis, Anthony D.; Harms, Arthur E.
PATENT ASSIGNEE(S): Dupont Pharmaceuticals Company, USA
SOURCE: PCT Int. Appl., 116 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002004455	A2	20020117	WO 2001-US21818	20010711
WO 2002004455	A3	20020620		

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002091134	A1	20020711	US 2001-902845	20010711
EP 1299393	A2	20030409	EP 2001-952616	20010711

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

BR 2001012350	A	20030624	BR 2001-12350	20010711

PRIORITY APPLN. INFO.: US 2000-217412P P 20000711
WO 2001-US21818 W 20010711

OTHER SOURCE(S): MARPAT 136:118393

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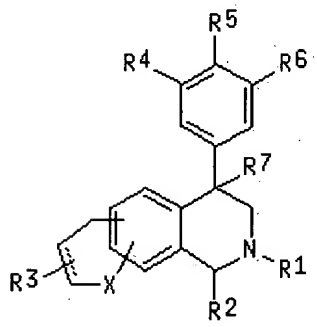

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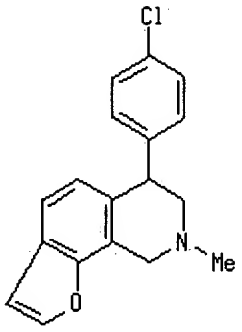
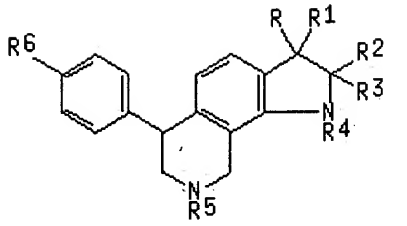


II

AB Title compds. I [R1 = alk(en/yn)yl, cycloalkyl, 5-cycloalkylalkyl and benzyl, each of which is optionally substituted with 1 to 3 substituents; R2 = H, alk(en/yn)yl, cycloalkyl, cycloalkylalkyl and haloalkyl; R3 = H, halo, alkyl, haloalkyl and cycloalkyl, wherein alkyl, haloalkyl and cycloalkyl are optionally substituted with 1 to 3 substituents selected from alkoxy and amino; R4-6 = H, halo, alkoxy, NO2, amino, amido, ureido, S(O)n, CN, acyl, carboxy, carboxamide, alk(en/yn)yl, cycloalkyl and cycloalkylalkyl; alternatively R5-6 = O-alkyl-O; R7 = H, halo and alkoxy; X = O, NH (and substituted derivs.) and S; n = 0 - 2] with some provisos, were prepd. E.g., 7-formylbenzofuran was converted to the corresponding methylamino-Me deriv. (MeOH, MeNH2, NaBH4), alkylated with p-chlorophenacyl bromide (CH2Cl2, Et3N) and reduced to the amino alc. (CH2Cl2, NaBH4, 5 h, 0° → room temp.). This intermediate was treated dropwise with MsOH (CH2Cl2, 0°C → reflux, overnight) to give II as a yellow oil (18% overall yield). Over 150 synthetic examples were provided. Compds. I are selective neurotransmitter receptor binding ligands (no data). I are useful in the treatment of attention-deficit hyperactivity disorder.

IT **389844-44-4P**



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AB The title compds. (I; R = H, alkyl aminoalkyl, heterocyclylalkyl; RR1 = O, OCH2CH2O, SCH2CH2S; RR3 = atoms required to complete a 6-membered N-contg. ring; R1R2 = H, bond; R2R3 = O; R2R4 = bond,; R4 = H, alkyl, iminomethyl, heterocyclyl; R5 = H, alkyl; R6 = halo) were prepd. Thus, 2-H2NC6H4CH2NMeCH2CHPhOH was condensed with Cl3CCH(OH)2 and HONH2.HCl to give 91% 2-HON:CHCONHC6H4CH2NMeCH2CHPhOH. This was cyclized by stirring at 35° in concd. H2SO4 to give 90% I (RR1 = R2R3 = O, R4 = R6 = H, R5 = Me). This was treated with LiAlH4 in Et2O-THF at room temp. to give 30% I (R = R3 = R4 = R6 = H, R1R2 = bond, R5 = Me) (II). II inhibited tetrabenazine-induced ptosis in mice with an ED50 of 0.3 mg/kg i.p.

IT **98159-29-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and antidepressant activity of)

RN 98159-29-6 HCAPLUS

CN 1H-Pyrrolo[3,2-h]isoquinoline, 6,7,8,9-tetrahydro-8-methyl-6-phenyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

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CRN 98159-28-5
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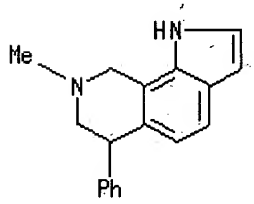

CM 2

CRN 110-16-7
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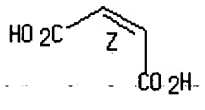
Double bond geometry as shown.



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.58	499.93

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION

CA SUBSCRIBER PRICE -1.30 -5.21

FILE 'REGISTRY' ENTERED AT 06:58:15 ON 01 OCT 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 SEP 2003 HIGHEST RN 595542-94-2
DICTIONARY FILE UPDATES: 29 SEP 2003 HIGHEST RN 595542-94-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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L17 STRUCTURE UPLOADED

=> d 117
L17 HAS NO ANSWERS
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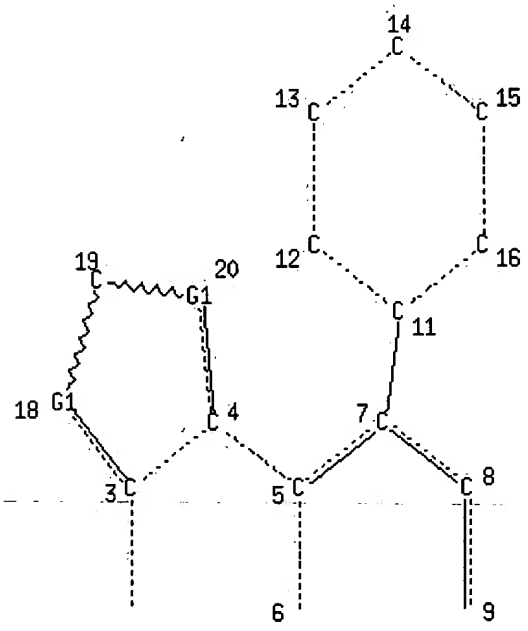
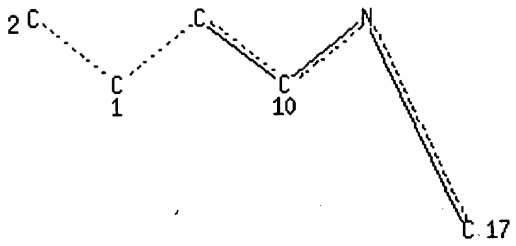
0 21 S 22 N 23 C 24
Page 1-A



Page 1-B



Page 2-B
VAR G1=21/22/23/24
NODE ATTRIBUTES:
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DEFAULT MLEVEL IS ATOM
MLEVEL IS CLASS AT 17
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 11
NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

=> **s l17**
SAMPLE SEARCH INITIATED 06:59:55 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 330 TO ITERATE

100.0% PROCESSED 330 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 5511 TO 7689
PROJECTED ANSWERS: 1 TO 80

L18 1 SEA SSS SAM L17

=> **s l17 full**
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 147.75 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 07:00:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 6837 TO ITERATE

100.0% PROCESSED 6837 ITERATIONS 22 ANSWERS
SEARCH TIME: 00.00.01

L19 22 SEA SSS FUL L17

=> **file hcaplus**

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.95	648.88

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.21

FILE 'HCAPLUS' ENTERED AT 07:00:08 ON 01 OCT 2003
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FILE COVERS 1907 - 1 Oct 2003 VOL 139 ISS 14
FILE LAST UPDATED: 30 Sep 2003 (20030930/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> **s l19**
L20 1 L19

=> **d l20, ibib abs fhitstr, 1**

L20 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2002:51467 HCAPLUS
DOCUMENT NUMBER: 136:118393
TITLE: Preparation and use of furan-fused-4-phenyl substituted tetrahydroisoquinolines for treatment of attention deficit hyperactivity disorder (ADHD)
INVENTOR(S): Beck, James P.; Pechulis, Anthony D.; Harms, Arthur E.
PATENT ASSIGNEE(S): Dupont Pharmaceuticals Company, USA
SOURCE: PCT Int. Appl., 116 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002004455	A2	20020117	WO 2001-US21818	20010711
WO 2002004455	A3	20020620		
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PRIORITY APPLN. INFO.: US 2000-217412P P 20000711
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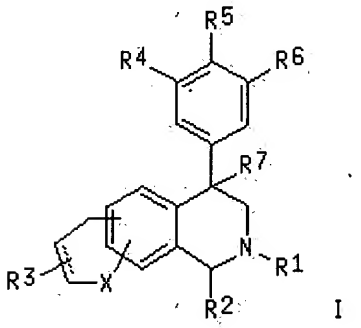
OTHER SOURCE(S): MARPAT 136:118393

GI



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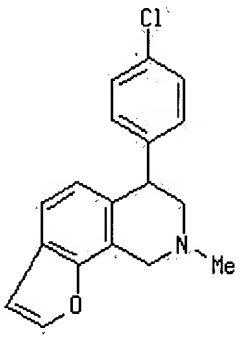
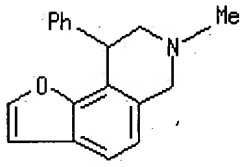


II

AB Title compds. I [R1 = alk(en/yn)yl, cycloalkyl, 5-cycloalkylalkyl and benzyl, each of which is optionally substituted with 1 to 3 substituents; R2 = H, alk(en/yn)yl, cycloalkyl, cycloalkylalkyl and haloalkyl; R3 = H, halo, alkyl, haloalkyl and cycloalkyl, wherein alkyl, haloalkyl and cycloalkyl are optionally substituted with 1 to 3 substituents selected from alkoxy and amino; R4-6 = H, halo, alkoxy, NO2, amino, amido, ureido, S(O)n, CN, acyl, carboxy, carboxamide, alk(en/yn)yl, cycloalkyl and cycloalkylalkyl; alternatively R5-6 = O-alkyl-O; R7 = H, halo and alkoxy; X = O, NH (and substituted derivs.) and S; n = 0 - 2] with some provisos, were prepd. E.g., 7-formylbenzofuran was converted to the corresponding methylamino-Me deriv. (MeOH, MeNH2, NaBH4), alkylated with p-chlorophenacyl bromide (CH2Cl2, Et3N) and reduced to the amino alc. (CH2Cl2, NaBH4, 5 h, 0° → room temp.). This intermediate was treated dropwise with MsOH (CH2Cl2, 0°C → reflux, overnight) to give II as a yellow oil (18% overall yield). Over 150 synthetic examples were provided. Compds. I are selective neurotransmitter receptor binding ligands (no data). I are useful in the treatment of attention-deficit hyperactivity disorder.

IT **389845-09-4P**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug; prepn. and use of furan-fused-4-Ph substituted tetrahydroisoquinolines for treatment of attention deficit hyperactivity disorder (ADHD))
RN 389845-09-4 HCAPLUS
CN Furo[2,3-f]isoquinoline, 6,7,8,9-tetrahydro-7-methyl-9-phenyl-, hydrochloride (9CI) (CA INDEX NAME)



HCl

=> **file caold**

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.79	655.67

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.65	-5.86

FILE 'CAOLD' ENTERED AT 07:00:23 ON 01 OCT 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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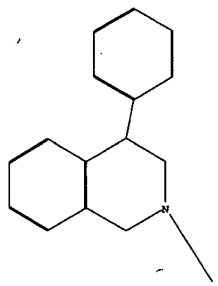

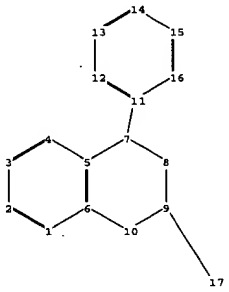


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    17
ring nodes :
    1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16
chain bonds :
    7-11  9-17
ring bonds :
    1-2  1-6  2-3  3-4  4-5  5-6  5-7  6-10  7-8  8-9  9-10  11-12  11-16  12-13  13-14  14-15
    15-16
exact/norm bonds :
    5-7  6-10  7-8  8-9  9-10  9-17
exact bonds :
    7-11
normalized bonds :
    1-2  1-6  2-3  3-4  4-5  5-6  11-12  11-16  12-13  13-14  14-15  15-16
isolated ring systems :
    containing 11 :


Match level :
    1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom  11:Atom
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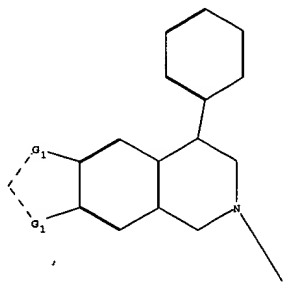

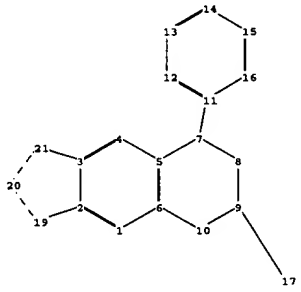

chain nodes :
17
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 19 20 21
chain bonds :
7-11 9-17
ring bonds :
1-2 1-6 2-3 2-19 3-4 3-21 4-5 5-6 5-7 6-10 7-8 8-9 9-10 11-12 11-16 12-13
13-14 14-15 15-16 19-20 20-21
exact/norm bonds :
2-19 3-21 5-7 6-10 7-8 8-9 9-10 9-17 19-20 20-21
exact bonds :
7-11
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16
isolated ring systems :
containing 11 :

G1:O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
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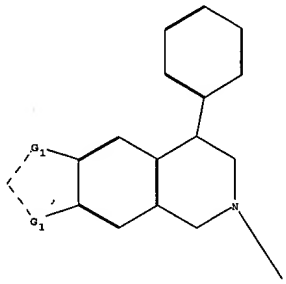

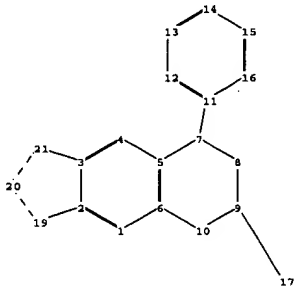

chain nodes :
17
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 19 20 21
chain bonds :
7-11 9-17
ring bonds :
1-2 1-6 2-3 2-19 3-4 3-21 4-5 5-6 5-7 6-10 7-8 8-9 9-10 11-12 11-16 12-13
13-14 14-15 15-16 19-20 20-21
exact/norm bonds :
2-19 3-21 5-7 6-10 7-8 8-9 9-10 9-17 19-20 20-21
exact bonds :
7-11
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16
isolated ring systems :
containing 11 :

G1:O,S,N,C

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
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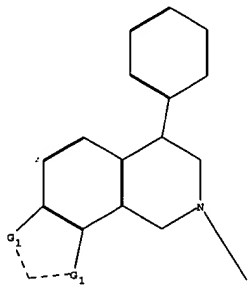

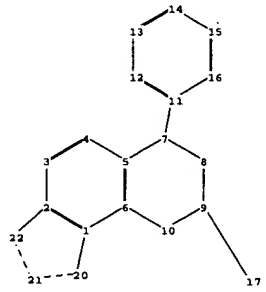

chain nodes :
17
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 20 21 22
chain bonds :
7-11 9-17
ring bonds :
1-2 1-6 1-20 2-3 2-22 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 11-12 11-16 12-13
13-14 14-15 15-16 20-21 21-22
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exact bonds :
7-11
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16
isolated ring systems :
containing 11 :

G1:O,S,N,C

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
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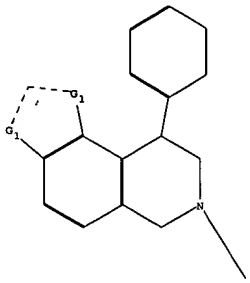

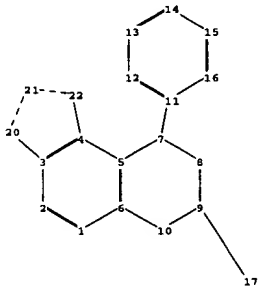

chain nodes :
17
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 20 21 22
chain bonds :
7-11 9-17
ring bonds :
1-2 1-6 2-3 3-4 3-20 4-5 4-22 5-6 5-7 6-10 7-8 8-9 9-10 11-12 11-16 12-13
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3-20 4-22 5-7 6-10 7-8 8-9 9-10 9-17 20-21 21-22
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isolated ring systems :
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G1:O,S,N,C

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 20:Atom 21:Atom 22:Atom